

BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

```
BBBBBBBBB      AAAAAA      SSSSSSSS      CCCCCCCC      AAAAAA      NN      NN      TTTTTTTTTT      YY      YY      PPPPPPPP
BBBBBBBBB      AAAAAA      SSSSSSSS      CCCCCCCC      AAAAAA      NN      NN      TTTTTTTTTT      YY      YY      PPPPPPPP
BB      BB      AA      AA      SS      CC      AA      AA      NN      NN      TT      YY      YY      PP      PP
BB      BB      AA      AA      SS      CC      AA      AA      NN      NN      TT      YY      YY      PP      PP
BB      BB      AA      AA      SS      CC      AA      AA      NN      NN      TT      YY      YY      PP      PP
BBBBBBBBB      AA      AA      SSSSSS      CC      AA      AA      NN      NN      TT      YY      YY      PPPPPPPP
BBBBBBBBB      AA      AA      SSSSSS      CC      AA      AA      NN      NN      TT      YY      YY      PPPPPPPP
BB      BB      AAAAAAAAAA      SS      CC      AAAAAAAAAA      NN      NNNN      TT      YY      PP
BB      BB      AAAAAAAAAA      SS      CC      AAAAAAAAAA      NN      NNNN      TT      YY      PP
BB      BB      AA      AA      SS      CC      AA      AA      NN      NN      TT      YY      PP
BB      BB      AA      AA      SS      CC      AA      AA      NN      NN      TT      YY      PP
BBBBBBBBB      AA      AA      SSSSSSSS      CCCCCCCC      AA      AA      NN      NN      TT      YY      PP
BBBBBBBBB      AA      AA      SSSSSSSS      CCCCCCCC      AA      AA      NN      NN      TT      YY      PP
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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
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LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLL      IIIIII      SSSSSSSS
```



```
1 0001 0 MODULE BASSCANTYPAHEAD (
2 0002 0 IDENT = '1-005'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: BASIC-PLUS-2 Miscellaneous I/O
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the BASIC CANTYPA function,
36 0036 1 which cancels type-ahead.
37 0037 1
38 0038 1 ENVIRONMENT: VAX-11 User Mode
39 0039 1
40 0040 1 AUTHOR: John Sauter, CREATION DATE: 01-MAY-1979
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original.
45 0045 1 1-002 - Set up ISB$A USER_FP. JBS 25-JUL-1979
46 0046 1 1-003 - Cancel typeahead immediately, instead of waiting till
47 0047 1 the next read. PLL 28-Jul-81
48 0048 1 1-004 - Use LIB$GET_EF to allocate an event flag, instead of using the
49 0049 1 default efn_zero. PLL 30-Nov-81
50 0050 1 1-005 - Declare LIB$STOP to be external. RNG 05-Jan-82
51 0051 1 --
52 0052 1
53 0053 1 !<BLF/PAGE>
```

! File: BASCANTYP.B32 EDIT:RNG1005


```
55 0054 1 |
56 0055 1 | SWITCHES:
57 0056 1 |
58 0057 1 |
59 0058 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
60 0059 1 |
61 0060 1 |
62 0061 1 | LINKAGES:
63 0062 1 |
64 0063 1 |
65 0064 1 | REQUIRE 'RTLIN:OTSLNK'; ! Define linkages
66 0493 1 |
67 0494 1 |
68 0495 1 | TABLE OF CONTENTS:
69 0496 1 |
70 0497 1 |
71 0498 1 | FORWARD ROUTINE
72 0499 1 | BASSCANTYPAHEAD; ! Cancel type ahead
73 0500 1 |
74 0501 1 |
75 0502 1 | INCLUDE FILES:
76 0503 1 |
77 0504 1 |
78 0505 1 | REQUIRE 'RTLML:OTSLUB'; ! Get LUB definitions
79 0645 1 |
80 0646 1 | REQUIRE 'RTLML:OTSISB'; ! Get ISB definitions
81 0814 1 |
82 0815 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Macros for defining psects
83 0910 1 |
84 0911 1 | LIBRARY 'RTLSTARLE'; ! System symbols
85 0912 1 |
86 0913 1 |
87 0914 1 | MACROS:
88 0915 1 |
89 0916 1 | NONE
90 0917 1 |
91 0918 1 | EQUATED SYMBOLS:
92 0919 1 |
93 0920 1 | NONE
94 0921 1 |
95 0922 1 | PSECTS:
96 0923 1 |
97 0924 1 | DECLARE_PSECTS (BAS); ! Declare psects for BAS$ facility
98 0925 1 |
99 0926 1 | OWN STORAGE:
100 0927 1 |
101 0928 1 | NONE
102 0929 1 |
103 0930 1 | EXTERNAL REFERENCES:
104 0931 1 |
105 0932 1 |
106 0933 1 | EXTERNAL ROUTINE
107 0934 1 | LIB$GET_EF, ! allocate an event flag
108 0935 1 | LIB$FREE_EF, ! deallocate an event flag
109 0936 1 | LIB$STOP, ! stop process and return status
110 0937 1 | BASS$OPEN_ZERO : NOVALUE, ! Open channel zero
111 0938 1 | BASS$CB_PUSH : JSB_CB_PUSH NOVALUE, ! Load register CCB
```


BASSCANTYPAHEAD
1-005

D 16
16-Sep-1984 00:03:23 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 11:54:44 [BASRTL.SRC]BASCANTYP.B32;1

Page 3
(2)

```
: 112      0939 1      BASS$CB_POP : JSB CB POP NOVALUE,      ! Done with register CCB
: 113      0940 1      BASS$STOP_IO : NOVALUE;              ! Signal fatal I/O error
: 114      0941 1
: 115      0942 1      !+
: 116      0943 1      !- The following are the error codes used in this module.
: 117      0944 1
: 118      0945 1
: 119      0946 1      EXTERNAL LITERAL
: 120      0947 1      BASSK_IO_CHANOT : UNSIGNED (8);      ! Channel not open.
: 121      0948 1
```



```
123 0949 1 GLOBAL ROUTINE BASSCANTYPAHEAD (
124 0950 1     CHAN
125 0951 1 ) =
126 0952 1
127 0953 1 ++
128 0954 1 FUNCTIONAL DESCRIPTION:
129 0955 1
130 0956 1     Suppress type ahead on the terminal open on the specified
131 0957 1     channel.
132 0958 1
133 0959 1 FORMAL PARAMETERS:
134 0960 1
135 0961 1     CHAN.rl.v     The channel whose terminal to suppress type
136 0962 1     ahead on.
137 0963 1
138 0964 1 IMPLICIT INPUTS:
139 0965 1
140 0966 1     NONE
141 0967 1
142 0968 1 IMPLICIT OUTPUTS:
143 0969 1
144 0970 1     LUB$V_PTA     Suppress type-ahead.
145 0971 1
146 0972 1 ROUTINE VALUE:
147 0973 1 COMPLETION CODES:
148 0974 1
149 0975 1     SSS_NORMAL
150 0976 1
151 0977 1 SIDE EFFECTS:
152 0978 1
153 0979 1     Signals if an error is encountered.
154 0980 1     BASS$CB_PUSH will signal if the channel number is invalid.
155 0981 1     Signals BASS$K_IO_CHANOT if the channel is not open.
156 0982 1
157 0983 1 --
158 0984 1
159 0985 2 BEGIN
160 0986 2
161 0987 2 BUILTIN
162 0988 2     FP;
163 0989 2
164 0990 2 GLOBAL REGISTER
165 0991 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
166 0992 2
167 0993 2 LOCAL
168 0994 2     FMP : REF BLOCK [, BYTE],
169 0995 2     EVENT_FLAG,
170 0996 2     STATUS,
171 0997 2     DEVNAM_DESC : BLOCK [8, BYTE];
172 0998 2
173 0999 2     FMP = .FP;
174 1000 2 ++
175 1001 2     Get the CCB for the channel.
176 1002 2 --
177 1003 2
178 1004 3     IF (.CHAN EQL 0)
179 1005 2     THEN
```



```
180      1006      BEGIN
181      1007      !+
182      1008      !- The user is referencing his controlling terminal.
183      1009      !-
184      1010      BASS$CB_PUSH (LUB$K_LUN_INPU, LUB$K_ILUN_MIN);
185      1011      !+
186      1012      !- If the controlling terminal is not yet open, open it.
187      1013      !-
188      1014      !-
189      1015      IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$OPEN_ZERO (.FMP [SF$L_SAVE_FP]);
190      1016      !-
191      1017      END
192      1018      ELSE
193      1019      BEGIN
194      1020      !+
195      1021      !- This is an ordinary channel.
196      1022      !-
197      1023      BASS$CB_PUSH (.CHAN, LUB$K_LUN_MIN);
198      1024      END;
199      1025      !-
200      1026      CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
201      1027      !+
202      1028      !- If the channel is not now open, give an error signal.
203      1029      !-
204      1030      !-
205      1031      IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASS$K_IO_CHANOT);
206      1032      !-
207      1033      !+
208      1034      !- This code formerly set the PTA bit and then let RMS do the actual
209      1035      !- purge at the record level. This method, however, might purge things
210      1036      !- typed after the cancel typeahead was issued. So cancel typeahead now
211      1037      !- by doing a read virtual block of 0 characters.
212      1038      !-
213      1039      !-
214      1040      !+
215      1041      !- $ASSIGN will translate SYS$INPUT to a device name.
216      1042      !-
217      1043      !-
218      1044      DEVNAM_DESC [DSC$W_LENGTH] = %CHARCOUNT ('SYS$INPUT');
219      1045      DEVNAM_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_Z;
220      1046      DEVNAM_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
221      1047      DEVNAM_DESC [DSC$A_POINTER] = UPLIT('SYS$INPUT');
222      1048      !-
223      1049      STATUS = $ASSIGN (DEVNAM = DEVNAM_DESC, CHAN = CHAN);
224      1050      IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
225      1051      !-
226      1052      STATUS = LIB$GET_EF (EVENT_FLAG);
227      1053      IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
228      1054      !-
229      1055      STATUS = $QIOW (EFN = .EVENT_FLAG, CHAN = .CHAN,
230      1056      P  FUNC = IOS_READVBLK+IOSM_PURGE,
231      1057      P  P1 = .CCB [LUB$A_BUF_BEGL, P2 = 0);
232      1058      IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
233      1059      !-
234      1060      STATUS = LIB$FREE_EF (EVENT_FLAG);
235      1061      IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
236      1062      !-
237      1063      !-
238      1064      !-
239      1065      !-
240      1066      !-
241      1067      !-
242      1068      !-
243      1069      !-
244      1070      !-
245      1071      !-
246      1072      !-
247      1073      !-
248      1074      !-
249      1075      !-
250      1076      !-
251      1077      !-
252      1078      !-
253      1079      !-
254      1080      !-
255      1081      !-
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272      1098      !-
273      1099      !-
274      1100      !-
275      1101      !-
276      1102      !-
277      1103      !-
278      1104      !-
279      1105      !-
280      1106      !-
281      1107      !-
282      1108      !-
283      1109      !-
284      1110      !-
285      1111      !-
286      1112      !-
287      1113      !-
288      1114      !-
289      1115      !-
290      1116      !-
291      1117      !-
292      1118      !-
293      1119      !-
294      1120      !-
295      1121      !-
296      1122      !-
297      1123      !-
298      1124      !-
299      1125      !-
300      1126      !-
301      1127      !-
302      1128      !-
303      1129      !-
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1073      1899      !-
1074      1900      !-
1075      1901      !-
1076      1902      !-
```



```
: 237      1063  2      STATUS = $DASSGN (CHAN = .CHAN);
: 238      1064  2      IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
: 239      1065  2      !+
: 240      1066  2      !- We are done with register CCB.
: 241      1067  2
: 242      1068  2      BASS$CB_POP ();
: 243      1069  2      RETURN TSS$_NORMAL);
: 244      1070  1      END;
```

! end of BASSCANTYPAHEAD

```
.TITLE BASSCANTYPAHEAD
.IDENT \1-005\

.PSECT _BASSCODE,NOWRT, SHR, PIC,2

00 00 00 54 55 50 4E 49 24 53 59 53 00000 P.AAA: .ASCII \SYSS$INPUT\<0><0><0> ;

.EXTRN LIB$GET_EF, LIB$FREE_EF
.EXTRN LIB$STOP, BASS$OPEN_ZERO
.EXTRN BASS$CB_PUSH, BASS$CB_POP
.EXTRN BASS$STOP_IO, BASS$IO_CHANOT
.EXTRN SYSS$ASSIGN, SYSS$QIOQ
.EXTRN SYSS$DASSGN

      083C 00000
      55 00000000G 00 9E 00002
      54 00000000G 00 9E 00009
      5E      0C C2 00010
      53      5D D0 00013
           04 AC D5 00016
           18 12 00019
      50      08 CE 0001B
      52      07 CE 0001E
           65 16 00021
      14      FC AB E8 00023
           0C A3 DD 00027
      00000000G 00 01 FB 0002A
           08 11 00031
           50 D4 00033 1$:
      52      04 AC D0 00035
           65 16 00039
      FF4C CB 0C A3 D0 0003B 2$:
      0B      FC AB E8 00041
      7E      00G 8F 9A 00045
      00000000G 00 01 FB 00049
      04      AE 01000009 8F D0 00050 3$:
      0B      AE 99 AF 9E 00058
           7E 7C 0005D
           04 AC 9F 0005F
           10 AE 9F 00062
      00000000G 00 04 FB 00065
      52      50 D0 0006C
      05      52 E8 0006F
           52 DD 00072
      64      01 FB 00074
           5E DD 00077 4$:
      00000000G 00 01 FB 00079

.ENTRY BASSCANTYPAHEAD, Save R2,R3,R4,R5,R11
MOVAB BASS$CB_PUSH, R5
MOVAB LIB$STOP, R4
SUBL2 #12, SP
MOVL FP, FMP
TSTL CHAN
BNEQ 1$
MNEGL #8, R0
MNEGL #7, R2
JSB BASS$CB_PUSH
BLBS -4(CCB), 2$
PUSHL 12(FMP)
CALLS #1, BASS$OPEN_ZERO
BRB 2$
CLRL R0
MOVL CHAN, R2
JSB BASS$CB_PUSH
MOVL 12(FMP), -180(CCB)
BLBS -4(CCB), 3$
MOVZBL #BASS$IO_CHANOT, -(SP)
CALLS #1, BASS$STOP_IO
MOVL #16777225, DEVNAM_DESC
MOVAB P.AAA, DEVNAM_DESC+4
CLRQ -(SP)
PUSHAB CHAN
PUSHAB DEVNAM_DESC
CALLS #4, SYSS$ASSIGN
MOVL R0, STATUS
BLBS STATUS, 4$
PUSHL STATUS
CALLS #1, LIB$STOP
PUSHL SP
CALLS #1, LIB$GET_EF
```


52	50	D0	00080	MOVL	R0, STATUS	
05	52	E8	00083	BLBS	STATUS, 5\$	1053
	52	DD	00086	PUSHL	STATUS	
64	01	FB	00088	CALLS	#1, LIB\$STOP	1057
	7E	7C	0008B	5\$: CLRQ	-(SP)	
	7E	7C	0008D	CLRQ	-(SP)	
	7E	D4	0008F	CLRL	-(SP)	
	BC	AB	DD	00091	PUSHL	-68(CCB)
		7E	7C	00094	CLRQ	-(SP)
		7E	D4	00096	CLRL	-(SP)
7E	0831	8F	3C	00098	MOVZWL	#2097, -(SP)
	04	AC	DD	0009D	PUSHL	CHAN
	2C	AE	DD	000A0	PUSHL	EVENT FLAG
00000000G	00	0C	FB	000A3	CALLS	#12, SYSSQ10W
	52	50	D0	000AA	MOVL	R0, STATUS
	05	52	E8	000AD	BLBS	STATUS, 6\$
		52	DD	000B0	PUSHL	STATUS
64		01	FB	000B2	CALLS	#1, LIB\$STOP
		5E	DD	000B5	6\$: PUSHL	SP
00000000G	00	01	FB	000B7	CALLS	#1, LIB\$FREE_EF
	52	50	D0	000BE	MOVL	R0, STATUS
	05	52	E8	000C1	BLBS	STATUS, 7\$
		52	DD	000C4	PUSHL	STATUS
64		01	FB	000C6	CALLS	#1, LIB\$STOP
	04	AC	DD	000C9	7\$: PUSHL	CHAN
00000000G	00	01	FB	000CC	CALLS	#1, SYSSDASSGN
	52	50	D0	000D3	MOVL	R0, STATUS
	05	52	E8	000D6	BLBS	STATUS, 8\$
		52	DD	000D9	PUSHL	STATUS
64		01	FB	000DB	CALLS	#1, LIB\$STOP
	00000000G	00	16	000DE	8\$: JSB	BAS\$CB_POP
		01	D0	000E4	MOVL	#1, R0
50		04	000E7	RET		1070

; Routine Size: 232 bytes, Routine Base: _BAS\$CODE + 000C

:	245	1071	1
:	246	1072	1 END
:	247	1073	1
:	248	1074	0 ELUDOM

! end of module BASSCANTYPAHEAD

PSECT SUMMARY

Name	Bytes	Attributes
_BAS\$CODE	244	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

BASSCANTYPAHEAD
1-005

I 16
16-Sep-1984 00:03:23
14-Sep-1984 11:54:44

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASCANTYP.B32;1

Page 8
(3)

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	15	0	581	00:01.2

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:BASCANTYP/OBJ=OBJ\$:BASCANTYP MSRC\$:BASCANTYP/UPDATE=(ENH\$:BASCANTYP)

: Size: 232 code + 12 data bytes
: Run Time: 00:10.7
: Elapsed Time: 00:25.1
: Lines/CPU Min: 6005
: Lexemes/CPU-Min: 40277
: Memory Used: 157 pages
: Compilation Complete

0019

AH-BT13A-SE
 VAX/VMS V4.0

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